

ABSTRACT OF THE DISCLOSURE

An R-C polyphase network that provides bandpass shaping and amplification to maintain the quadrature phase output is provided. In one
5 implementation, a polyphase device comprises two transistors each having a collector, a base and an emitter. Positive and negative components of an input signal are coupled to a respective base of the transistors, the transistors adapted to drive the R-C polyphase network. Inputs of the R-C polyphase network are coupled to the collectors of the transistors. The R-C polyphase
10 network includes an inductor and has first output and a second output offset in phase. The inductor is adapted to provide bandpass filtering of the first output and the second output to reduce harmonics and spurious content in the output, as well as provide amplification of the outputs relative to the input signal.